



---

© 2003 VECTOR MANUFACTURING, Ltd.  
4140 S.W. 28TH WAY, FT. LAUDERDALE, FL 33312  
AB060303



# **THERMOELECTRIC TRAVEL COOLER/WARMER • 12-VOLT DC**

**OPERATES FROM ANY VEHICLE'S ACCESSORY OUTLET, OR 12-VOLT  
DC PORTABLE POWER SUPPLY.**

**OPERATES WITH 4 AMPERE RATED AC/DC ADAPTERS.**



## **OWNER'S MANUAL & WARRANTY INFORMATION**

THIS MANUAL CONTAINS IMPORTANT INFORMATION REGARDING SAFETY, OPERATION, MAINTENANCE AND STORAGE OF THIS PRODUCT. BEFORE USING, READ AND UNDERSTAND ALL CAUTIONS, WARNINGS, INSTRUCTIONS AND PRODUCT LABELS. FAILURE TO DO SO COULD RESULT IN POSSIBLE INJURY OR PROPERTY DAMAGE.

---

**4140 SW 28TH WAY, FT. LAUDERDALE, FL 33312**  
**TEL 954-584-4446 • FAX 954-584-5556 • TOLL FREE: 866-584-5504**  
**WWW.VECTORMFG.COM**

---

## INTRODUCTION

Thank you for choosing the **Vector Thermoelectric Travel Cooler & Warmer**, one of the most advanced, state of the art units on the market today. Please read this manual carefully before use to ensure optimum performance and avoid damage to the unit itself or power sources that it operates from.

**The Travel Cooler & Warmer** is compact, lightweight, and portable. It provides convenient, storage for cold or hot beverages and foods, making conventional insulation-only coolers, thermal bottles and jars, and insulated chests obsolete.

### For extended use:

No need for a refrigerator, stove or 120-volt AC outlet, simply plug the **Travel Cooler & Warmer** into vehicle's 12-volt DC cigarette lighter socket or accessory outlet to keep food and drinks cold or warm. No more digging around in melting ice and water for soggy foods and dripping drinks, no need for ice, dry ice, or cold/hot packs. Ideal for use in a:

- Car
- Truck or SUV
- RV, mobile home, camper
- Boat
- Home or motel - use with Vector's VEC002 AC/DC Converter.
- At the beach, on picnics, at the campground - use with battery power.

### For short-term use:

When you have to leave the vehicle in the parking lot at the beach, park, campsite, stadium or ballpark, simply plug the **Travel Cooler & Warmer** into a reliable cordless, rechargeable power supply, such as:

- Any Vector® cordless, rechargeable Jumpstarter & 12-volt DC Power Supply
- The Vector® cordless, rechargeable Pocket Power TM

**Note: When used with a cordless, rechargeable power supply, a full charge on the power source is recommended for maximum operating time.**

### Completely portable

Take the **Travel Cooler & Warmer** with you, wherever you go, to keep cold or hot food and drinks at just the right temperature. Ideal for use:

- At the office, for lunches and snacks (use with Power Converter)
- In a hotel, as a personal mini-fridge (use with Power Converter)
- On the road, for refreshments on long journeys
- On camping and day trips, for cold or hot food and drinks
- At tailgate parties for cooked dishes, snacks or drinks
- At the beach, picnics or barbecues, for cookout supplies - keeps meats and condiments cool, or prepared dishes hot

---

**The Travel Cooler & Warmer** can be used with most food and beverages, either cold or hot. Use with standard household containers or ready-to-use food and drink packaging. Ideal as a cooler, for:

**Cooler, for:**

- Beverages      sodas, beer, wine, juice, milk, iced tea or coffee, shakes, thirst quenchers, water, and more - in cans, bottles, cartons, pouches, sport bottles, etc.
- Foods            salads, sandwiches, deli meats, hamburgers, hot dogs, meat or fish, buns, condiments and dips, etc.
- Desserts        puddings, fruit cups, yogurts, etc.
- Snacks          fruit, candy, chocolate, cookies, fruit bars, chips, etc.
- Medicines      keeps sensitive medicines cool and safe.

**Warmer, for**

- Beverages      hot coffee and tea, cocoa, milk, etc.
- Foods            leftovers, pre-packaged/pre-heated meals, take-out foods, soups, covered dishes, stews, casseroles, etc. Baby food jars and feeding bottles.

## **FEATURES**

- Compact, lightweight, completely portable - use with vehicle or boat's 12-volt DC accessory outlet, appropriate 12-volt DC power supply or AC/DC Power Converter.
- Non-wearing thermoelectric system cools to approx. 40 degrees F below surrounding air temperature or warms to approx. 120 degrees F.
- Use with standard household containers or ready-to use packaging..
- Rests on vehicle seat or floor for easy access.
- Extra-long, 7-foot, fused 12-volt DC power cord with DC power plug.
- Convenient, shoulder strap for easy portability.
- Durable, weather resistant construction and easy-open and close lid.
- Environment-friendly CFC-free polyurethane liner.
- Cold/heat transfer to foods via temperature-efficient aluminum-coated liner.
- Built-in heat dissipation fan with long-life, brushless motor.
- WARM/OFF/COOL three position power switch
- Automatic shut-off to prevent overheating of unit.
- Built-in LED cool and warm indicators.
- Built-in Power cord storage hatch.

## **CAUTIONS:**

- This unit is intended for use with a 12-volt DC power source that can provide at least 4 amperes of current. **DO NOT** attempt to use with any other power source.
- **NEVER** operate unit in an enclosed space. **ALWAYS** ensure that there is adequate ventilation and free flow of air around the unit, so that air expelled by the fan is effectively dissipated.
- When operating the unit in a vehicle or boat cabin, adequate ventilation must be provided by an air conditioning system or open window. In a car with windows up, air temperatures can reach 150 degrees F.
- This unit is intended for portable use only; it is not designed to be built-in or recessed - this would interfere with the unit's air dissipation system, and could cause a fire or other safety hazard.
- Use only with the supplied power cord. If cord becomes worn or damaged, discontinue use and call Vector Customer Service department for authorized replacement.
- Never allow the cooler/warmer to be immersed in water or other liquid. This will void the warranty.



---

## **USING THE TRAVEL COOLER/WARMER AS A COOLER**

### **Connecting to a vehicle's 12-volt DC accessory outlet, for extended use:**

1. Make sure that the unit's WARM/OFF/COOL switch is in the OFF (center) position. Start vehicle, or turn ignition to accessory position.
2. Open the Power Cord Hatch and remove the power Cord.
3. Insert one end of the unit's power cord into the power socket on the cooler.
4. Insert the DC plug into the vehicle's 12-volt DC accessory outlet.
5. Move the WARM/OFF/COOL switch on the cooler to the COOL position.  
The Green LED will light to indicate that the unit is cooling.
6. If possible, allow 30 minutes of operation for the unit to cool before placing old food in the unit.
7. Put items into the cooler and close the lid. Do not overstuff the cooler to keep the lid from closing.
8. Keep cooler lid closed during operation, and re-close it quickly when adding or removing items from it.
9. After use, turn the switch to the OFF position and empty the cooler.
10. Disconnect the power cord from the vehicle's accessory outlet and from the cooler.
11. Store cord in the Cord Storage Hatch in the lid.
12. Clean unit as described in the Care & Maintenance section of this manual.
13. Store in a cool, dry area out of direct sunlight.

### **CAUTIONS:**

- The cooler takes about 30 minutes to reach its maximum cool temperature (approx. 40°F below that of surrounding air). It is recommended that items to be placed in the cooler be pre-chilled. This will assist the cooler in reaching the lowest temperature as quickly as possible..
- The cooler will continue to operate as long as as it is supplied with power.
- If the vehicle engine is turned off, the cooler will continue to draw power (a nominal 3-amps or 36-watts) from the vehicle battery..
- If the engine is switched off for a long period (overnight) it is important to disconnect the cooler from the accessory outlet to avoid draining the vehicle's battery.

### **WARNINGS:**

- Food will stay cool for some time after the unit is disconnected or turned off, but temperature will rise to that of the surrounding air.
- Observe common sense hygiene rules, as with any cooling unit. Do not eat or drink perishable items that may have spoiled or become contaminated without proper temperature control.

---

## **USING THE TRAVEL COOLER/WARMER AS A WARMER**

- Follow the procedures for cooling except that the switch is set to WARM.
- The red WARM LED will light when the unit is warming.
- Follow all food handling warnings and cautions.
- The maximum temperature for warming is 130 degrees F.
- Follow all operating cautions regarding power.

## **CONNECTING TO A PORTABLE 12-VOLT DC POWER SUPPLY, FOR USE AWAY FROM VEHICLE**

- Make sure that the unit's COOL/WARM/OFF switch is in the OFF position.
- Insert one end of the unit's power cord into the power socket on the cooler.
- Insert the other end into the 12-volt DC socket on the portable power supply.
- Continue with steps 4-10, as shown above, for cooler or warmer function.  
Observe all CAUTIONS AND WARNINGS.

***Note: With a current draw of approximately 3-amps (36-watts), the unit will operate for approximately 2-1/2 hours from a fully charged 12-volt DC portable power supply such as the Vector Pocket Power™ or Pocket Generator™. A standard 17 Ampere Hour Jumpstarter/Power Supply such as the VEC021 series - can operate the cooler/warmer for approximately 8 hours.***

---

## **FUSE REPLACEMENT**

If the DC socket is powered, but the unit does not operate, then the cooler/warmer fuse may be open. The power cord is fuse-protected against short-circuiting, by a 10-amp fuse located in the tip of the DC accessory plug.

To inspect or replace the DC Power Cord Fuse

1. Unscrew the end-cap of the DC accessory plug.
2. Remove fuse, inspect it for an open element, and replace with a new 10-amp fuse, if needed.
3. Re-attach the end-cap to the plug.
4. If new fuse opens, call Vector® Customer Service department for further instructions and possible return/replacement. This unit is not user-serviceable, it must be returned to Vector® Manufacturing for professional service or repair. Any attempt to service by user will void warranty.

## **CARE AND MAINTENANCE**

***The Travel Cooler/Warmer*** is ruggedly constructed to provide years of dependable service.

- After each use, clean the unit, inside and out, with a soft cloth and mild soap solution.
- Do not scrape, scratch, or puncture the surface of the cooler with sharp objects or abrasives.
- Dry the unit properly, and store in a cool, dry place.
- Always make sure the power cord is disconnected from the unit before storing.
- Never allow the cooler/warmer to be immersed in liquid.



---

## **TROUBLESHOOTING**

### **ProblemPossible Cause/Remedy**

- **Travel Cooler/Warmer** is not functioning as cooler or warmer (fan is not turning)
- Accessory outlet of DC power supply is not functioning -check by plugging in a 12VDC appliance. If not, clean accessory outlet and re-connect the **Travel Cooler/Warmer**.
- Fuse or circuit breaker in accessory outlet is open. Reset breaker or check fuse, and replace fuse if necessary.
- Ignition is switched off - start engine or switch ignition to accessory position.
- Fuse in unit's power cord is blown - see Fuse Replacement section for location of fuse and instructions for checking and replacing fuse.
- Cooler/warmer is not cooling or heating properly (fan is not turning).
  - Fan is defective. Call Vector® Customer Service department for return/replacement instructions. This unit is not user-serviceable, it must be returned to Vector Manufacturing for professional service or repair. Any attempt to service by user will void warranty.
- Cooler/warmer is not cooling or heating, but fan is turning
  - Cooling unit is defective. Call Vector® Customer Service department for return/replacement instructions. This unit is not user-serviceable, it must be returned to Vector Manufacturing for professional service or repair. Any attempt to service by user will void warranty.
- Travel Cooler/Warmer takes longer than 30 minutes to reach design inside temperature
  - Low battery or supply voltage.
  - Unit will attain design temperature more efficiently if items are pre-heated or pre-chilled.
  - Fan area is blocked - Move unit or object

## **SPECIFICATIONS:**

Capacity . . . . . 7 Liter / 1.85 Gallons (US)  
Power Supply: . . . . . 12-volt DC  
Power Cord: . . . . . 7', with accessory outlet-type plug and 10 Amp fuse  
Amperage draw: . . . . . 3.5 Amperes (approx. 42-watts)  
Cooling Performance: . . . Cools to average 40°F below surrounding air (4.41°C)  
Warming Performance: . . Warms to 120°F (54.41°C) above surrounding air.  
High Temperature Limit: . . Automatic ON/OFF.  
Cold/Heat Transfer: . . . . Temperature-efficient, aluminum-coated liner  
Insulation: . . . . . CFC-free polyurethane liner  
Heat Dissipation: . . . . . Built-in fan with long-life, brushless motor  
Warm/Cool System: . . . . Non-wearing thermoelectric

---

## 2 YEAR LIMITED WARRANTY PROGRAM

This limited warranty program is the only one that applies to this product, and it sets forth all the responsibilities of Vector Manufacturing, Ltd., regarding this product. There is no other warranty, other than those described herein.

This Vector Manufacturing, Ltd. product is warranted, to the original purchaser only, to be free of defects in materials and workmanship for two years from the date of purchase without additional charge. The warranty does not extend to subsequent purchasers or users. Vector Manufacturing, Ltd. will not be responsible for any amount of damage in excess of the retail purchase price of the product under any circumstances. Incidental and consequential damages are specifically excluded from coverage under this warranty.

This product is not intended for commercial use. This warranty does not apply to accessories or damage to units from misuse or incorrect installation. Misuse includes wiring or connecting to improper polarity power sources.

**RETURN/REPAIR POLICY:** Defective products, other than accessories, may be returned postage prepaid to Vector Manufacturing. Any defective product, other than accessories, that is returned to Vector Manufacturing within 30 days of the date of purchase will be replaced free of charge. If such a product is returned more than 30 days but less than two years from the purchase date, Vector Manufacturing will repair the unit or, at its option, replace it free of charge.

If the unit is repaired, new or reconditioned replacement parts may be used, at Vector Manufacturing's option. A unit may be replaced with a new or reconditioned unit of the same or comparable design. The repaired or replaced unit will then be warranted under the terms of the remainder of the warranty period. The customer is responsible for the shipping charges on all returned items after 30 days. During the warranty period, Vector Manufacturing, Ltd. will be responsible for the return shipping charges.

**LIMITATIONS:** This warranty does not cover accessories, bulbs, fuses and batteries, defects resulting from normal wear and tear (including chips, scratches, abrasions, discoloration or fading due to usage or exposure to sunlight), accidents, damage during shipping to our service facility, alterations, unauthorized use or repair, neglect, misuse, abuse, failure to follow instructions for care and maintenance, fire, flood and Acts of God.

If your problem is not covered by this warranty, call our Technical Support Department at (954) 584-4446 or Toll Free at (866) 584-5504 for general repair information and charges if applicable. You may also contact us through our website at [www.vectormfg.com](http://www.vectormfg.com).

**STATE LAW RIGHTS:** This warranty gives you specific legal rights. Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages, so the exclusions or limitations stated herein may not apply. This warranty gives the purchaser specific legal rights; other rights, which vary from state to state, may apply.

**TO REQUEST WARRANTY SERVICE FOR THIS PRODUCT:** Contact Vector Manufacturing Technical Support by telephone, fax or mail. We suggest that you keep the original packaging in case you need to ship the unit. When returning a product, include your name, address, phone number, dated sales receipt (or copy) and a description of the reason for return and product serial number. After repairing or replacing the unit, we will make every effort to return it to you within four weeks.

**WARRANTY ACTIVATION:** Please complete Warranty Activation Card and mail to Vector Manufacturing. Enter "VEC246" as Model and "Thermoelectric Travel Cooler/Warmer" as Product Type. All Vector Manufacturing, Ltd. products must be registered within 10 days of purchase to activate this warranty. Mail the completed registration form, along with a copy of the original sales receipt to:

**ATTN.: CUSTOMER SERVICE / VECTOR MANUFACTURING, Ltd.**

**4140 SW 28th Way, Ft. Lauderdale, FL 33312**

**PH: 954-584-4446 • TOLL FREE: 866-584-5504 • Fax: 954-584-5556.**

**You may also contact us at our web site [www.vectormfg.com](http://www.vectormfg.com).**

**WARRANTY IS NON-TRANSFERABLE AND NON-REFUNDABLE.**